61751V/35 103 CIBA GEIGY AG 20.10,73-CH-014936 (+00238)) (22.08,74) C07d-31/32 - *OT 2405-171 inflamma-tory activity are prepd. e.g. by oxide of corresp. alcohol Crapde, of formula (I) and their salts are new: R-Ph-A-C-Py (where R= opt, substd, cycloaliphatic gp.). Ph= ortho- or para-phonylene gp.; A= lower alkylene or a direct bond, X w one grp. opt, functionally modified e.g. to NOH, Pys pyridyl), USES Cmpds. (I) are useful intermediates and have fibrinolytic DETAILS analgesic and and -inflammatory activities. Test results ar PREPARATION $(i) R-Ph-A-Y+Z-Py \longrightarrow (i)$ R-Ph-A-CH-Py oxidn. (I)

Cha 19.02.73 B7-D4, B12-(D1,D7), B12-H2. $P_{Y-Y_z} + R_{-P_{b-H}} \longrightarrow (1)$ R-Ph-A₂-C-Py H₂ (I; A=zlkylend) wherein (i) one of the gps. Y and Z is carboxyl, or a functional deriv, thereof and the other is a metal atom; (ii) $A_i = A_i$ substd. by a cleavable gp. Y; csp. an q-CO₂H gp.; (iii) Y₂ is a functionally modified carboxyl gp.; (iv)A2 = lower alkenylene

Y may be an caterified carboxyl, anhydride or a cyano gp.; Z= Na, K, pref. Li or Zn-Hal, pref. Cd-Hal or Mg-Hal. Vz is suitably an acid chloride gp, and the reaction is carried out in the conventional way using a Lewis acid as catalyst.

61751V Contil

A. .

61751V Contd SPECIFICALLY CLAIMED Рь Position of position of substituent Aubatita -CO or -CH(CH₂)CO 2-4-R* or 3-C1-4-R* 3--CO 4-R " -CO or -CH(CH3)CO (or oxime) $4-R^{10}$ $-CH(CH_3)CO$ 4-R10 2-, 6-Me -CH(CH₂)CO 4-R10 (R⁰= cyclohexyl; R¹⁰= cyclohexen-1-yl). EXAMPLE

A 1.5N soln. (175 ml) of butyllithium in other was stirred. at -60° under an atmost of Nz and Z-bromopyridine (40 g) in anhydrous ether (50 ml) was slowly added dropwise. After 15 mins, p-(1-cyclohemenyl)-benzoic acid (15 g) in anhydrous ether (250 ml) was added. The reaction mixt, was then allowed to warm to room temp. before being stirred for 2 hrs. It was then poured onto a mixt, of ice and NH4Cl and partitioned between water and ether. The other phase was sopd, washed with water, 0.1N NaOH soln, and water, dried over NagSO, and evaporated under reduced pressure. The residue was distilled under reduced pressure. The frac-

tion-b.pt. 200° (0.9mm Hg) contained crude Z- [/p-(1-cyclohexenyl)-phenyl/exymethyl} -pyridine, m.pt. 58-60 (61751V)

61761V/35 300 E31 KOS N V PHILIPS

PHIG 20.02.73 *DT 2405-765

20.02,73-NL-002304 (22.08.74) B01d-59/24 C01g-57

In a process for producing liquids contg. 99mTc, using a Vessel contg. an alumina carrier for the mother isotope (99mMo) which is present as a molybdate, part of the alumin is coated with hydrated manganese dioxide in amt. of 1.5-4 mg. Ma per gram of alumina, pref. 2.2-3 mg/g. USE

The solus, contg. 99mTc are useful as tracers in medical diagnosis and for marking protein and sulphur colloids. ADVANTAGES

The product solns, are of good purity, contg. no Al34 ions and have pH 6.5.7.5.

DETAILS The vessel (1) has an entry port (2) at the top and an out-Ret (3) at the bottom; it is flanged on both eads (4). There is a taper at (5) housing a trapezoidal glass filter (6). The inlet and outlet (2,3) are closed with flanged rubber plugs (7) secured by aluminium covers (10) containing a hole (11). The upper layer of carrier material (12) consists of alumina

B5-A4, B12-K4, Liquids contg. 99m technotium - isotopu generator using alumina and Partly hydrated manganese dioxide. The lower layer (13) is particles which are partially or fully coated with hydrated or hydrated manganese dioxide with 99m molybdenum as sodium Elumina. The total ant. of carrier material is e.g. 7g., of which 3g, is in the upper layer. The carrier material is located between the glass filter (6) and a micropore filter (14) held against the material by a scaling ring (15). In the upper layer (12) is the mother isotope 99 0 Mo as an alkali metal molybdate, e.g. sodium molybdate. A wash liq. e.g. physiological saline is fed into the top of the vessel through a hollow injection needle and the mother isotope 99mMo is absorbed as sodium molybdate. Through radioactive decay 99mTc is present in the form of sodium pertechnetate which to taken up by the solu. and then, after passing through the lower layer (13) and the filter (6), can be drawn off with an injection needle.(61761V).